



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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## INSPECTION REPORT

Partial XXX Complete      Exploration     

Inspection Date: 04/24/2002 Time: 10:00 am-2:30pm

Date of Last Inspection: 03/26/2002

Mine Name: Deer Creek Mine County: Emery Permit Number: C/015/018

Permittee and/or Operator's Name: PacifiCorp

Business Address: P.O. Box 310, Huntington, Utah 84528

Company Official(s): Dennis Oakley

State Official(s): Stephen J. Demczak, Priscilla Burton Federal Official(s): None

Weather Conditions: Windy, 50's

Type of Mining Activity: Underground XXX Surface Prep Plant Other

Existing Acreage: Permitted 19010 Disturbed 95.79 Regraded      Seeded     

Status: Active

### REVIEW OF PERMIT, PERFORMANCE STANDARDS & PERMIT CONDITION REQUIREMENTS

- Substantiate the elements on this inspection by checking the appropriate performance standard.
  - For complete inspections provide narrative justification for any elements not fully inspected unless element is not appropriate to the site, in which case check N/A.
  - For partial inspections check only the elements evaluated.
- Document any noncompliance situation by referencing the NOV issued at the appropriate performance standard listed below.
- Reference any narratives written in conjunction with this inspection at the appropriate performance standard listed below.
- Provide a brief status report for all pending enforcement actions, permit conditions, Division Orders, and amendments.

	EVALUATED	N/A	COMMENTS	NOV/ENF
1. PERMITS, CHANGE, TRANSFER, RENEWAL, SALE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. SIGNS AND MARKERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. TOPSOIL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. HYDROLOGIC BALANCE:				
a. DIVERSIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. SEDIMENT PONDS AND IMPOUNDMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. OTHER SEDIMENT CONTROL MEASURES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. WATER MONITORING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. EFFLUENT LIMITATIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. EXPLOSIVES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. DISPOSAL OF EXCESS SPOIL/FILLS/BENCHES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. COAL MINE WASTE/REFUSE PILES/IMPOUNDMENTS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. NONCOAL WASTE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. PROTECTION OF FISH, WILDLIFE AND RELATED ENVIRONMENTAL ISSUES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. SLIDES AND OTHER DAMAGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. CONTEMPORANEOUS RECLAMATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. BACKFILLING AND GRADING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. REVEGETATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. SUBSIDENCE CONTROL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. CESSATION OF OPERATIONS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. ROADS:				
a. CONSTRUCTION/MAINTENANCE/SURFACING	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. DRAINAGE CONTROLS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. OTHER TRANSPORTATION FACILITIES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. SUPPORT FACILITIES/UTILITY INSTALLATIONS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. AVS CHECK (4 <sup>th</sup> Quarter- April, May, June)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. AIR QUALITY PERMIT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. BONDING & INSURANCE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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(COMMENTS ARE NUMBERED TO CORRESPOND WITH TOPICS LISTED ABOVE)

**1. PERMITS, CHANGE, TRANSFER, RENEWAL, SALE**

Priscilla Burton attended the inspection for the purpose of discussing Amendment 99C(5). The submittal is currently under review by the Division. The amendment to the MRP includes a commitment to sample refuse and overburden in Deer Creek and Elk Canyon in the 2002 field season. Proposed sample locations in Deer Creek Canyon are near the shop building and near the bathhouse and the outslope of the refuse pile. Two samples will be taken in Elk Canyon. Samples will be taken using a rotary core and split spoon, except that sampling the outslope of the refuse will require a trench. Samples will be taken to a depth that is four feet below the proposed reclaimed surface.

**3. TOPSOIL**

The topsoil pile located at the active refuse pile was inspected. There were no signs of wind or water erosion. The topsoil stored along the road is protected by vegetation. Silt fences protect the topsoil refuse pile.

**4A. HYDROLOGIC BALANCE: DIVERSIONS**

Several diversions were spot-checked and complied with the R645 Coal Rules.

**4B. HYDROLOGIC BALANCE: SEDIMENT PONDS AND IMPOUNDMENTS**

The mine site's sediment pond was inspected with no hazardous conditions noticed. The pond was discharging during the inspection.

**4C. HYDROLOGIC BALANCE: OTHER SEDIMENT CONTROL MEASURES**

Several alternate sediment control measures were inspected and complied with the Mining and Reclamation Plan.

**4D. HYDROLOGIC BALANCE: WATER MONITORING**

The permittee is two quarters behind in entering the water monitoring data into the electronic data system. The permittee has submitted this information in paper form. The Mining Permit issued by the Division of Oil, Gas and Mining effective on February 7, 2001 states in Special Condition #3 in Attachment A that water quality data for the Deer Creek will be submitted in an electronic format, using web site, <http://hlunix.hl.state.ut.us/cgi-bin/appx-ogm.cgi>.

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**4E. HYDROLOGIC BALANCE: EFFLUENT LIMITATIONS**

Leachate from salt stored at the fan pad was in evidence in the ditches running downstream from the fan pad. Mr. Oakley indicated that the mine's practice of mixing salt with sand to treat the icy roads in winter had lowered the TDS of the pond discharge (UPDES point) by about half. In fact, discharge from point 001 (Deer Creek Mine Sediment Pond Discharge) in the first quarter of 2000 averaged 7,714 mg/L TDS. (The maximum loading limit listed on the Discharge Monitoring Report is 3,407 mg/L TDS.) The first quarter of 2001 averaged 2,218 mg/L TDS.

In researching the TDS values, it was noted that the third quarter 2001 information filed with the Division was sampled and analyzed in 1999. Please file the correct third quarter 2001 water monitoring reports with the Division before the next inspection and check to make certain that the third quarter water monitoring information entered into the data base is accurate.

**7. COAL MINE WASTE/REFUSE PILES/IMPOUNDMENTS**

All refuse piles were inspected, with no hazardous conditions noticed. Photographs were taken and can be seen in O:/015018.der/Images/04242002.

Erosion has been controlled on the outslope of the materials yard refuse pile by the establishment of vegetation. This slope is shown on the Vegetation Monitoring map (enclosed with the Annual reports) for the Deer Creek Mine as the "Refuse Pile and Berm." Volume 2, Part 4 page 4-31 explains that this slope was seeded in 1981/1982 and again in 1988. The seed mix used in 1988/1989 is listed on page 4-31. No shrubs were seeded. Page 4-32 describes that the slopes were first cleaned of debris, then the seed mixture was applied, and then the following mixture was sprayed onto the surface:

Sylva fiber hydromulch 2000 lbs/acre  
Organic tackifier 120 lbs/acre  
Ammonium nitrate 50 lbs/acre  
Triple superphosphate 75 lbs/acre

See the Vegetation Monitoring Report and the 1988 and 1989 Annual Reports for further information. Successful vegetation establishment was determined to be a cover of at least 60% (page 4-32).

Interim revegetation has been monitored for cover and density in the years following seeding. The most recent monitoring record is in the 1998 Annual Report where the mean total living cover for the Deer Creek "Refuse Pile and Berm" was reported to be 42%. The composition of this cover was as follows: 25% shrubs, 25% forbs, and 49% grasses.

The dominant plant species observed were *Chrysothamnus nauseosus*, *Chrysothamnus viscidiflorus*, *Eriogonum corymbosum*, *Aster chilensis*, *Halogeton glomeratus*, *Machaeranthera canescens*, *Medicago sativa*, *Penstemon palmeri*, *Salsola pestifer*, *Agropyron cristatum*, *Bromus inermis*, *Elymus lanceolatus*, *Elymus smithii*, *Elymus spicatus*, *Elymus cinereus*, *Hordeum jubatum*, *Stipa hymenoides*.

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Of these dominant species, *Elymus smithii*, *Elymus spicatus*, *Stipa hymenoides*, *Penstemon palmeri*, *Medicago sativa*, and *Aster chilensis* were seeded.

Vegetation on the refuse slope in Elk Canyon was notable for it's volunteer conifers and *Eriogonum corymbosum*. No monitoring is being conducted on this outslope (apparently it was not seeded).

**8. NONCOAL WASTE**

Some non-coal waste material was outside the non-coal waste storage area.

**18. SUPPORT FACILITIES/UTILITY INSTALLATIONS**

No new surface facilities were constructed since the last inspection.

Inspector's Signature: \_\_\_\_\_

Stephen J. Demczak #39

Date: May 1, 2002

**Note:** This inspection report does not constitute an affidavit of compliance with the regulatory program of the Division of Oil, Gas & Mining.

cc: James Fulton, OSM  
Chuck Semborski, PacifiCorp  
Price Field office  
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